AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Claim 1 (currently amended) A sterile calcium free low bicarbonate dialysis

concentrate composition for use in the preparation of a dialysis solution comprising

sodium chloride (NaCl), 90.72±9.0 g/l magnesium chloride (MgCl2), 2.05±0.2 g/l, and

a concentration of bicarbonate sodium bicarbonate (NaHCO3) 28.35±2.8 g/l

sufficiently low so as to allow preparation of a sterile dialysis solution having a

bicarbonate concentrate of 5-30 mmol/l.

Claim 2 (withdrawn) A kit for preparing a dialysis solution comprising the sterile

dialysis concentrate composition of claim 1 and optionally instructions for its use.

Claim 3 (withdrawn) The kit of claim 2 further comprising sterile water sufficient to

dilute the concentrate to a solution comprising Na 140±14 mmol/l, Mg 0.75±0.07

mmol/l, Cl 116.5 \pm 11 mmol/l, and HCO3 25.0 \pm 2.5 mmol/l.

Claim 4 (withdrawn) A method of preparing a sterile dialysis solution comprising

diluting a sterile, dialysis concentrate composition of claim 1 in a sufficient amount

of sterile water to prepare a dialysis solution comprising Na 140±14 mmol/l, Mg

 0.75 ± 0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and HCO3 25.0 ± 2.5 mmol/l.

Claim 5 (withdrawn) A method for providing continuous renal replacement therapy

to a patient comprising administering a sterile dialysis solution prepared according

to the method of claim 4 in conjunction with a regional citrate anti-coagulant

solution to a patient in need thereof.

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Claim 6 (withdrawn) A method of preparing a sterile dialysis solution or infusate

comprising diluting a sterile, dialysis concentrate composition of claim 1 in a

sufficient amount of sterile water to prepare an infusate comprising Na 140±14

mmol/l, Mg 0.75 ± 0.07 mmol/l, Cl 116.5 ± 11 mmol/l, and HCO3 25.0 ± 2.5 mmol/l.

Claim 7 (withdrawn) A method for treating acute renal failure in a critically ill

patient without introducing calcium into the blood removed from the patient during

dialysis comprising administering a sterile dialysis solution prepared according to

the method of claim 6 in conjunction with a regional citrate anti-coagulant solution

to a patient in need thereof.

Claim 8 (withdrawn) A method for providing hemofiltration to a patient comprising

administering a sterile infusate prepared according to the method of claim 6 in

conjunction with a regional citrate anti-coagulant solution to a patient in need

thereof.

Claim 9 (original) A sterile dialysis solution comprising the concentrate as claimed

in claim 1 and a physiologically acceptable diluent.

Claim 10 (original) A sterile dialysis solution according to claim 9 comprising Na

 $140\pm14 \text{ mmol/l}$, Mg $0.75\pm0.07 \text{ mmol/l}$, Cl $116.5\pm11 \text{ mmol/l}$, and HCO3 25.0 ± 2.5

mmol/l.

Claim 11 (withdrawn) A method of preparation of a sterile calcium-free bicarbonate

concentrate according to claim 1 as an infusate for hemofiltration.

Claim 12 (withdrawn) A method of preparation of a sterile, calcium free bicarbonate

concentrate according to claim 1 as a dialysis solution for use in metabolic acidosis.

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Claim 13 (withdrawn) A method for correcting bicarbonate levels in a patient

during dialysis comprising providing a dialysate mixture having a bicarbonate level

sufficiently low so as to minimize the risk of metabolic complication in the patient,

preferably between 20-30 mmol/litre, wherein should the patient's bicarbonate level

drop below the preferred level, bicarbonate diffuses from the dialysate across the

semipermable membrane to the patient to correct the problem, and wherein if there

is an excess of bicarbonate in the blood of the patient then bicarbonate diffuses from

the blood to the dialysate to correct the problem.

Claim 14 (previously presented) A sterile calcium free low bicarbonate concentrate

containing magnesium, sodium, chloride, and a concentration of bicarbonate

sufficiently low so as to minimize the risk of metabolic complications in a patient,

and for continuous renal replacement therapies such as dialysis and hemofiltration,

wherein the bicarbonate level in the resulting dialysis solution is within the range of

about 5-30 mmol/litre.

Claim 15 (withdrawn) A method for treating acute renal failure in a critically ill

patient comprising dialyzing blood from the patient, without introducing calcium

into the blood removed from the patient during dialysis, by using a sterile dialysis

solution having a bicarbonate concentration within the range of about 5-30

mmol/litre.

Claim 16 (withdrawn) The use of claim 15 wherein the solution further comprises at

least one of potassium, glucose, and ketones such as b hydroxy-butyrate.

Claim 17 (previously presented) A sterile dialysis concentrate, for use in the

preparation of a dialysis solution, having a bicarbonate level sufficiently low so as to

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minimize the risk of metabolic complications in a patient and comprising sodium chloride, magnesium chloride, and sodium bicarbonate at a concentration in the dialysis solution within the range of about 5-30 mmol/litre.

Claim 18 (new) A calcium free low bicarbonate sterile dialysis concentrate composition for use in the preparation of a sterile dialysis solution comprising a concentration of sodium bicarbonate (NaHCO₃) sufficiently low so as to allow preparation of a sterile dialysis solution having a bicarbonate concentration of 5-30 mmol/l.

Claim 19 (new) A calcium free low bicarbonate sterile dialysis solution composition comprising sodium bicarbonate (NaHCO₃) in the range of 5 to 30 mmol/l.

Claim 20 (new) A composition according to Claim 19 wherein the sodium bicarbonate is in the range of 20-30 mmol/l.

Claim 21 (new) A composition according to Claim 19 wherein the sodium bicarbonate is $25 \text{ mmol/l} \pm 2.5 \text{ mmol/l}$.

Claim 22 (new) A composition according to Claim 19 further comprising sodium citrate added when the sodium bicarbonate is below 25 mmol/l.

Claim 23 (new) A composition according to Claim 22 wherein the sodium citrate is present in a level up to 20 mmol/l.